INTERNATIONAL SEARCH REPORT

International application No.

PCT/IB03/02523

A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : H04Q 7/20 US CL : 455/450, 452.1, 452.2, 457, 515 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED					
Minimum documentation searched (classification system followed by classification symbols)					
U.S.: 455/450, 452.1, 452.2, 457, 515					
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched					
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)					
C. DOCUMENTS CONSIDERED TO BE RELEVANT					
Category *	Citation of document, with indication, where appropriate, of the relevant passages			Relevant to claim No.	
Y Y	US 6,453,151 B1 (KIANG et al) 17 September 2002 (17.09.2002), column 4, lines 34-49, column 5, lines 10-27, column 6, lines 60-67, column 8, lines 25-54. US 6,272,124 B1 (AHN et al) 07 August 2001 (07.08.2001), column 6, lines 63-67, column 12.			1-6, 9-16, 19, 20-21, 23 1-2, 3, 10, 13, 20, 23	
. A	US 5,873,047 A (NAKANO et al.) 16 February 1999 (16.02.1999), column 12, lines 30-50).			1-30	
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Further documents are listed in the continuation of Box C. See patent family annex.					
"A" document	Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance of particular relevance "A" later document published after the index and not in conflict with the appl principle or theory underlying the index are applied to the or theory underlying the index are applied to the or theory underlying the index are applied to the or theory underlying the index are applied to the or theory underlying the index are applied to the or theory underlying the index are applied to the or the				
"E" carlier ap	earlier application or patent published on or after the international filing date "X" document of particular relevance; the considered novel or cannot be				
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means		"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art			
"P" document published prior to the international filing date but later than the "&" document member of the same patent priority date claimed			•		
Date of the actual completion of the international search 13 November 2003 (13.11.2003)		Date of mailing of the international search report 08 DEC 2003			
Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Rox 1450			Authorized officer William Trost Pelephone No. 703-305-3900		

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